

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/050334

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 A61K31/4439 A61P1/04 C07D401/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 A61K A61P C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, CHEM ABS Data, BEILSTEIN Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94/24867 A (SEPRACOR INC) 10 November 1994 (1994-11-10) cited in the application Claims, examples	1-11
X	WO 99/27917 A (BYK GULDEN LOMBERG CHEM FAB ; NEY HARTMUT (DE); DIETRICH RANGO (DE)) 10 June 1999 (1999-06-10) cited in the application abstract; claim 5	1-11
X	WO 02/45686 A (BYK GULDEN LOMBERG CHEM FAB ; LINDER RUDOLF (DE); DIETRICH RANGO (DE)) 13 June 2002 (2002-06-13) cited in the application page 5, paragraph 3	1-11

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

- "&" document member of the same patent family

Date of the actual completion of the International search

17 May 2005

Date of mailing of the International search report

08.08.2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 2004/013126 A (HUMMEL ROLF-PETER ; HANAUER GUIDO (DE); KOHL BERNHARD (DE); MUELLER BE) 12 February 2004 (2004-02-12) cited in the application page 3, line 6 -----	1-3
A	WO 00/10995 A (BYK GULDEN LOMBERG CHEM FAB ; KOHL BERNHARD (DE)) 2 March 2000 (2000-03-02) cited in the application claims 1-3 -----	1-11

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### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-11 (in part)

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-11 (in part)

Calcium salts of pantoprazole and (S)-pantoprazole and hydrates thereof and subject-matter related to these compounds.

2. claims: 1-11 (in part)

Potassium salts of pantoprazole and (S)-pantoprazole and hydrates thereof and subject-matter related to these compounds.

3. claims: 1-11 (in part)

Zinc salts of pantoprazole and (S)-pantoprazole and hydrates thereof and subject-matter related to these compounds.

4. claims: 1-11 (in part)

Lithium salts of pantoprazole and (S)-pantoprazole and hydrates thereof and subject-matter related to these compounds.

5. claims: 1-11 (in part)

Aluminium salts of pantoprazole and (S)-pantoprazole and hydrates thereof and subject-matter related to these compounds.

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 9424867	A 10-11-1994	AU 6713194 A		21-11-1994
		AU 6904498 A		16-07-1998
		CA 2161256 A1		10-11-1994
		EP 0695123 A1		07-02-1996
		JP 8509736 T		15-10-1996
		WO 9424867 A1		10-11-1994
		US 2003086968 A1		08-05-2003
		US 2004142032 A1		22-07-2004
		US 5888535 A		30-03-1999
		US 2001008899 A1		19-07-2001
WO 9927917	A 10-06-1999	AU 1671799 A		16-06-1999
		WO 9927917 A1		10-06-1999
WO 0245686	A 13-06-2002	AU 3165402 A		18-06-2002
		BR 0115985 A		23-12-2003
		CA 2430816 A1		13-06-2002
		CN 1479611 A		03-03-2004
		WO 0245686 A2		13-06-2002
		EP 1341524 A2		10-09-2003
		JP 2004514733 T		20-05-2004
		US 2004101558 A1		27-05-2004
WO 2004013126	A 12-02-2004	DE 10234617 A1		12-02-2004
		AU 2003266956 A1		23-02-2004
		BR 0312996 A		28-06-2005
		CA 2493326 A1		12-02-2004
		WO 2004013126 A1		12-02-2004
		EP 1527066 A1		04-05-2005
		US 2004248940 A1		09-12-2004
WO 0010995	A 02-03-2000	DE 19843413 C1		30-03-2000
		AT 219074 T		15-06-2002
		AU 761715 B2		05-06-2003
		AU 5515699 A		14-03-2000
		BG 105173 A		30-11-2001
		BR 9914288 A		19-06-2001
		CA 2341031 A1		02-03-2000
		CN 1318065 A ,C		17-10-2001
		CZ 20010621 A3		15-08-2001
		DE 69901840 D1		18-07-2002
		DE 69901840 T2		22-05-2003
		DK 1105386 T3		30-09-2002
		EA 4431 B1		29-04-2004
		EE 200100054 A		17-06-2002
		WO 0010995 A1		02-03-2000
		EP 1105386 A1		13-06-2001
		ES 2178896 T3		01-01-2003
		HK 1037616 A1		25-10-2002
		HR 20010117 A1		28-02-2002
		HU 0103257 A2		28-02-2002
		JP 2002523411 T		30-07-2002
		MX PA01001758 A		17-04-2002
		NO 20010718 A		12-02-2001
		NZ 509761 A		29-08-2003
		PL 345993 A1		14-01-2002
		PT 1105386 T		29-11-2002
		SI 1105386 T1		31-12-2002

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0010995	A	SK 2362001 A3	11-09-2001
		TR 200100287 T2	23-07-2001
		US 2002188008 A1	12-12-2002
		US 6410569 B1	25-06-2002
		ZA 200100934 A	04-03-2002